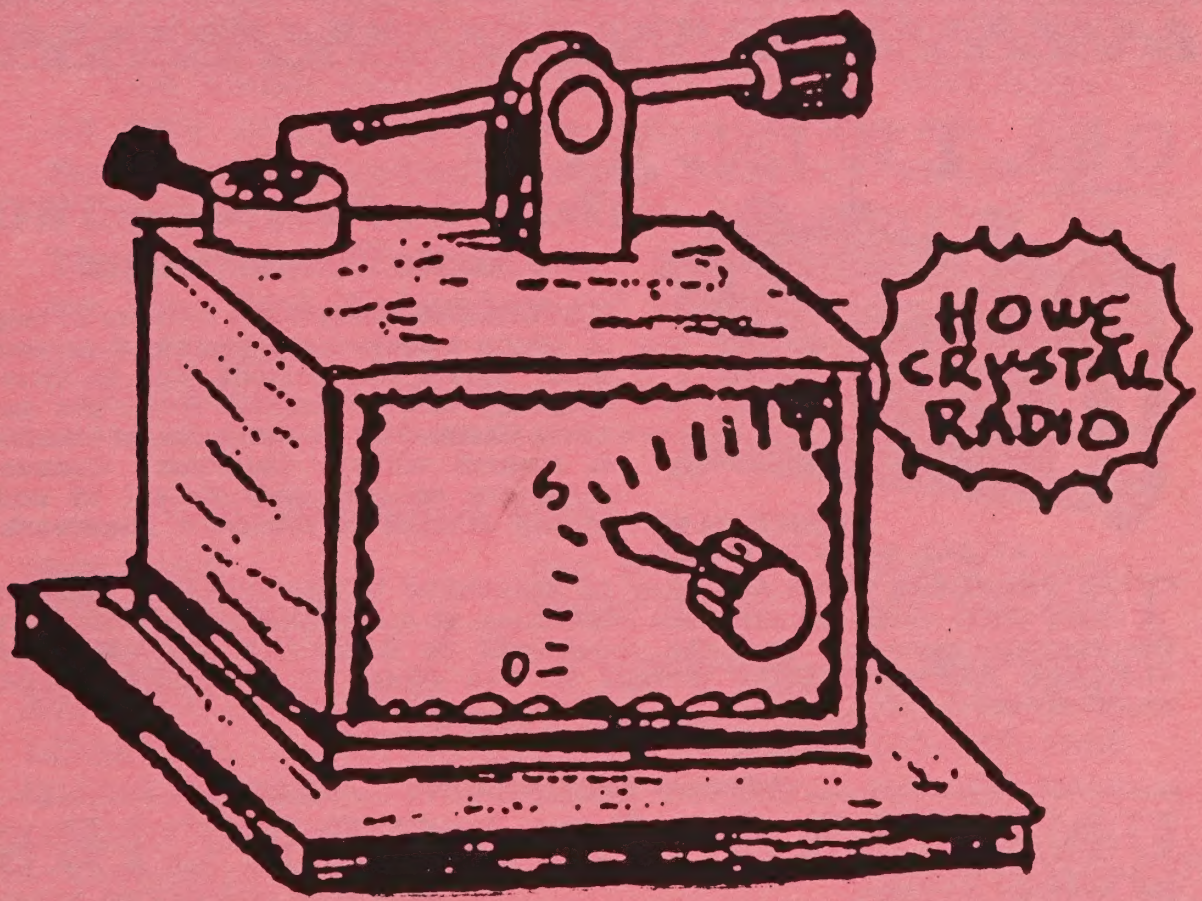
NORTHWEST VINTAGE RADIO SOCIETY

CALL LETTER

VOLUME 14 FEBRUARY 1988 NUMBER 2



JA MAC PRODUCTS

SPEAKER RECONING ALL MAKES

8600 NE Sandy Blvd

Portland,Or 97220

503-252-2929

One TWIN-AUD

PRICE $9.50
AT ALL GOOD DEALERS

Takes the Place of Any TWO Audio Transformers

PEERLESS TWIN-AUD consists of two audio transformers combined in one unit. Howls and squeals, due to intercoupling between transformers, are entirely eliminated. A maximum of volume is secured without distortion. Connections are on top, easy to get at and plainly marked to eliminate guesswork.

THE PEERLESS TWIN-AUD may be substituted in any circuit in place of *ANY TWO* audio transformers regardless of specifications or price with the absolute assurance that the result will be GREATER VOLUME and CLEARER REPRODUCTION through its two stages of BALANCED audio amplification.

Buy a TWIN-AUD Today

Western Representatives

UNIVERSAL AGENCIES

693 MISSION STREET,
SAN FRANCISCO, CAL.

537-S SAN FERNANDO BLDG.
LOS ANGELES, CAL.

Manufactured by PEERLESS RADIO CORPORATION
Newton Lower Falls Boston, Mass.

Contents

ITEM	PAGE
HOWE CRYSTAL RADIO	1
JA MAC	2
1988 OFFICERS AND STAFF	3
ATMOSPHERICA FROM SEPT. 1976	4
CONTEST RESULTS	5
AUCTION	5
JANUARY 1988 MEETING MINUTES	6
VACUUM TUBE CHARACTERISTICS	7
CROSS REFERENCE: RCA, GE, WESTINGHSE, GRAYB.	8,9
CALENDAR	10
EDITORIAL	11
SWAP SHOP	12,13
OLE!	13
R5-D3	14
DUES	14
THORDARSON	15
MEMBERSHIP FORM	16

CALL LETTER

The CALL LETTER, is published monthly, as the only official publication of the Northwest Vintage Radio Society which is a nonprofit organization incorporated in the State of Oregon. Meetings are held on the 2nd Saturday of each month (July and August omitted) at the Buena Vista Clubhouse in Oregon City. TIME : 11:00

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NWVRS OFFICERS & STAFF

PRESIDENT.....	DAN HOWARD.....	503-761-7799
VICE PRESIDENT.....	SONNY CLUTTER..	503-254-9296
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CORRESPOND. SECRETARY..	BOB EWING.....	503-648-5356

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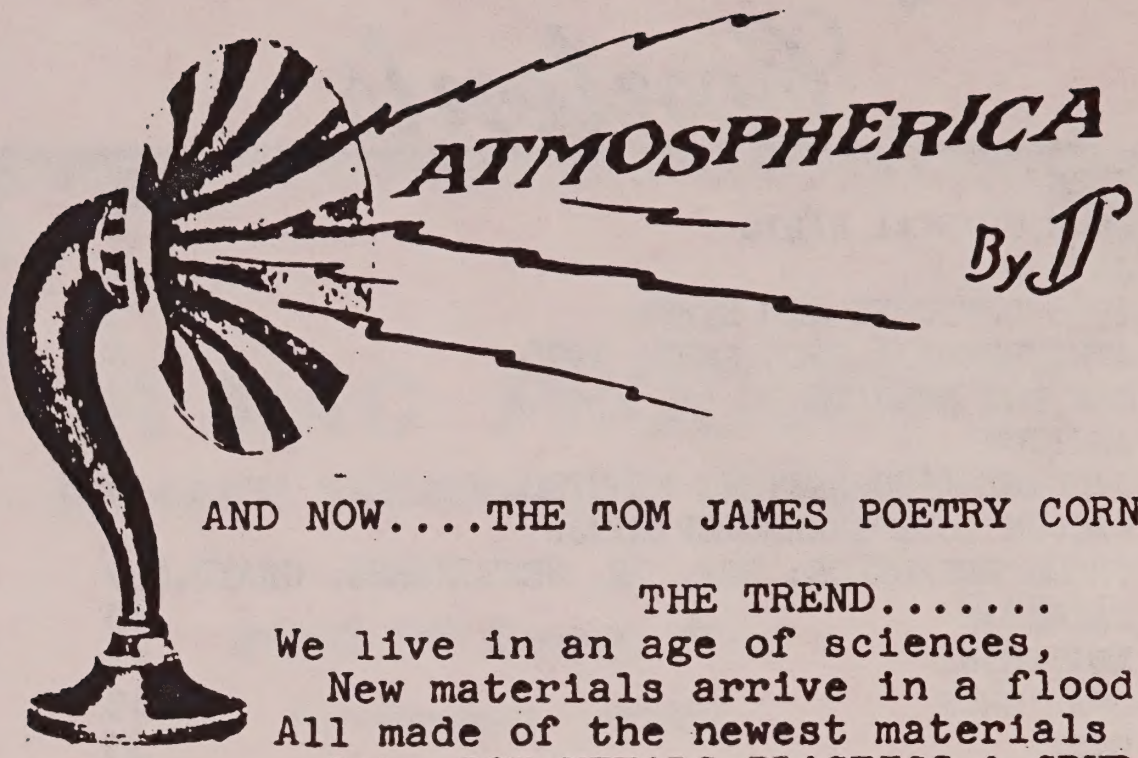


AND NOW....THE TOM JAMES POETRY CORNER

THE TREND.....

We live in an age of sciences,
  New materials arrive in a flood,
All made of the newest materials
  Like.POT-METALS,PLASTICS & CRUD.

Anything designed for a lifetime,
  Is quickly nipped in the bud:
It must be replaced in a short while,
  With POT-METALS,PLASTICS & CRUD.

So treasure those old receivers,
  Hardly a one was a dud,
Solidly built of something other
  Than POT-METALS & PLASTICS & CRUD.

****

LUCY WYRE said she couldn't keep her set in tune because the PITCH kept leaking out the bottom!

T/J 73's

****

CONTEST RESULTS

JANUARY 1988

BATTERY SETS WITH FOUR OR MORE TUBES:

FIRST PLACE: RADIOLA 20	SCOTT SHANKS
AND	
FIRST PLACE: KEMPER K-52 PORT.	JIM MASON
SECOND PLACE: MAGNAVOX T	JERRY TALBOTT
AND	
SECOND PLACE: DEFOREST D-10	ART REDMAN
THIRD PLACE: ACME	DON IVERSON

PLASTIC SETS POST WWII:

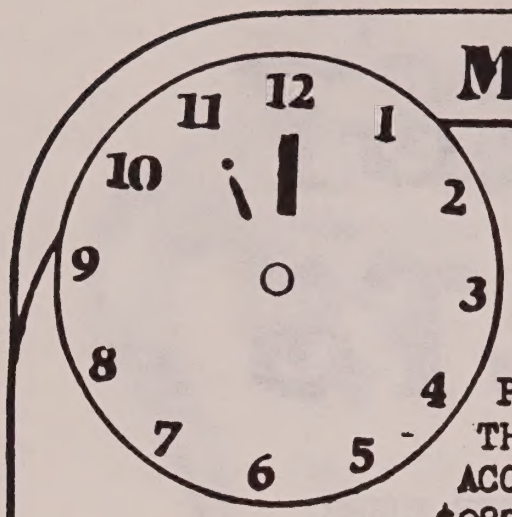
FIRST PLACE: FADA 652	JERRY TALBOTT
SECOND PLACE: EMERSON 502	JIM MASON
THIRD PLACE: BENDIX 55L3	SONNY CLUTTER
AND	
THIRD PLACE: PHILCO 48-230	RAY NELSON

AUCTION

FEBRUARY 13, 1988, 11:30 AM

DIRECTLY FOLLOWING OUR FEBRUARY MEETING WILL BE THE FIRST AUCTION OF 1988. PLEASE PROVIDE A LIST OF ITEMS TO BE AUCTIONED. PLACE A NUMBER ON EACH ITEM WHICH CORRESPONDS TO AN ITEM NUMBER ON THE LIST. ALSO ANY MINIMUM BID MUST BE NOTED ON THE LIST (NOT THE ON THE ITEM).

Meeting Minutes



NWVRS MEETING JANUARY 9, 1988

WAS CALLED TO ORDER BY NEW PRESIDENT DAN HOWARD AT 11:15 AM. THE MINUTES OF DEC. 12, 1987 WERE APPROVED AS PUBLISHED IN THE CALL LETTER. THE TREASURER'S REPORT WAS GIVEN AND ACCEPTED WITH A CURRENT BALANCE OF $987.97.

GUESTS WERE WELCOMED.

OLD BUSINESS: SOME DISCUSSION WAS HEARD ON NEW CLUB FACILITY POSSIBILITIES. OUR CALL LETTER EDITOR, ED BUHITE, WOULD APPRECIATE ITEMS FOR THE CALL LETTER FROM CLUB MEMBERS. THE CLUB FEELS WE ARE MISSING SOME RECOGNITION FROM THE WFC DISPLAY. ON YOUR NEXT VISIT TO THE DISPLAY YOU MAY SEE A REPRESENTATIVE FROM THE CLUB THERE.

NEW BUSINESS: A CALENDAR OF CLUB EVENTS FOR 1988 IS TAKING SHAPE. THERE MAY BE A COUPLE OF MEETING ACTIVITIES UN-SCHEDULED, WE'D LIKE TO HEAR YOUR SUGGESTIONS. CLUB MEMBERS ORDERED ISSUES OF "RADIOS-THE GOLDEN AGE". FROM JIM MASON. OUR NEXT SWAP MEET MAY BE AT THE OLD HOLGATE FARM FLEA MARKET. JERRY TALBOTT IS ARRANGING FOR TABLES THERE FOR US.

LEADS AND NEEDS WERE GIVEN.

MEETING ADJOURNED AT 11:50 AM

Norris W. Jackson

NORRIS W. JACKSON, RECORDING SECRETARY

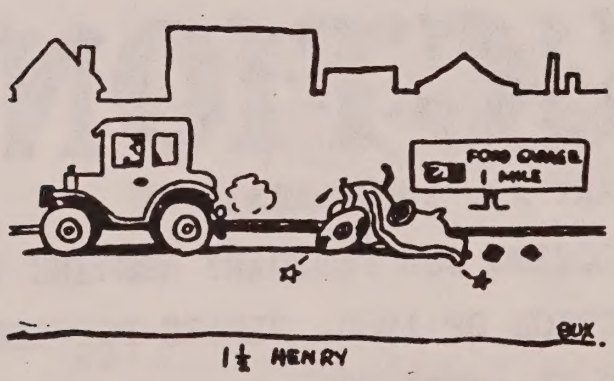


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Chart of Vacuum Tube Characteristics

TYPE	USE	"A" battery volts (Supply)	Filament Terminal Volts	"A" Battery Current Amperes	"B" Battery Volts		Negative "C" Battery Volts	Voltage Amplification Factor	Output Resistance Ohms
					Det.	Amp.			
UV. UX-199 C. CX-299	Det. or Amp.	4.5	3	.06	45	90	4.5	6.25	15,000
UV. UX-200 C. CX-300	Det. only	6	5	1.0	16 to 22½				
UX200-A CX300-A	Det. only	6	5	.25	Max. 45				
UV. UX. 201-A C. CX. 201-A	Det. or Amp.	6	5	.25	45	90 to 135	4.5 9.0	8 8	12,000 11,000
UX-120 CX-220	Pow. Amp. (Lst. stg. only)	4.5	3	.125		135	22.5	3.3	6,600
UX-112 CX-112	Det. or Amp.	6	5	.5	22½ to 45	135	9.0	Var.	Var.
UX-171 CX-371	Pow. Amp. (Lst. stg. only)	6	5	.5		180	40.5		
UX-210 CX-310	Pow. Amp. Oscillator	6	6	1.1		90 to 425	4.5 to 35	Var.	Var.
WD-11 C-11	Det. or Amp.	1.5	1.1	.25	22½	90	4.5	5.6	14,000
WD. WX-12 WX. CX-12	Det. or Amp.	1.5	1.1	.25	22½	90	4.5	5.6	14,000
3VB-199 3VBX-199	Det. or Amp.	4.5	3	.06	20	80	4.5	6.0	
3V-A 3VAX	Det. or Amp.	4.5	3	.12	20	90	4.5	6.5	
5V-A 5VAX	Det. or Amp.	6	5	.25	20	100	4.5 to 9.0	9.4	9,400
5VC 5VX	Pow. Amp. or Det.	6	5	.5	22½	90 to 157½	6 to 10.5	8.6	5,900
99 99X	Det. or Amp.	4.5	3	.06	22½	90 to 150	3 to 12		
O1A O1X	Det. or Amp.	6	5	.25	22½	90 to 150	3 to 12		
MU-20	Audio Amp.	6	6	.25		90 to 150	4.5 to 10.5	20	40,000
MU-6	Pow. Amp. (Lst. stg. only)	6	6	.5		90 to 150	4.5 to 10.5	6	5,000
B-6	Det. only	6	5	.25	16 to 22½				
A	Det. or Amp.	6	5	.25	20	120	4.5 to 9		
B C	Det. or Amp.	4.5	3	.06	20	80	4.5		
E	Pow. Amp. (Lst. stg. only)	4.5	3	.125		135	22.5		
F	Pow. Amp. (Lst. stg. only)	6	5	.5		90 to 180	4.5 to 9		
G	Audio Amp.	6	5	.25		90 to 180	4.5 to 9		
DC—	Det. or Amp.	4.5	3	.06	45	90	4.5	6.3	16,500
DC—	Det. or Amp.	6	5	.25	45	90	4.5	8.5	10,000
DC—	Pow. Amp. (Lst. Stg.only)	4.5	3	.125		112 to 135	13 to 22.5	3.3	6,300
DC—	Pow. Amp. (Lst. Stg.only)	6	5	.5		90 to 157.5	6 to 10.5	8.0	8,500

A HANDY TUBE CHART TO HANG OVER YOUR WORKBENCH :
TAKEN FROM Radio News, August, 1926

CROSS-INDEX

RCA Victor, General Electric, Westinghouse and Graybar Models

RCA Victor	*G. E.*	*West.*	*Graybar*
SW-2	JZ-30	—	—
R-4	J-70	WR-17	GT-7
R-5	T-12	WR-14	GB-4
R-5-DC	T-12-D	—	—
R-5-X	T-12-E	WR-14-CR	—
T-5	E-52	WR-9	—
R-6	J-75	—	GC-13
R-7	S-22 & S-22-X	WR-10	GB-8
R-7-A	S-22 (Pentodes)	WR-10-A	GB-8-A
R-7-DC	S-22-D	—	—
R-8	J-80	WR-18	GT-8
R-8-DC	J-80-D	—	—
R-9	S-42	WR-12	—
R-9-DC	S-42-D	—	—
R-10	S-132	WR-15-A	GB-989
R-11	K-62	WR-15	GB-9
R-12	J-85	—	GC-14
Rad. 16	—	—	GB-300
RE-16	SZ-42-P	WR-13	—
RE-16-A	—	WR-13-A	—
R-17-M	BX or K-41	WR-26-M	—
RE-18 & RE-18-A	KZ-62-P	—	—
R-18-W	K-40-A	—	—
Rad. 18	—	—	GB-310
Rad. 21	B-1	—	—
Rad. 22	B-2	—	—
R-22-S	L-50	—	—
R-22-W	L-51	—	—
RO-23	JZ-835	WR-16	—
R-24	JZ-822	—	—
R-24-A (47)	JZ-822-A	WR-24	—
R-24-A (2A5)	—	WR-24	—
R-27	K-40	WR-26	—
R-28	K-50	—	—
R-28-P	K-50-P	—	—
R-28-P (A to G)	K-51-P	WR-27	—
M-30	A-90	—	—
P-31	A-81	—	—
M-32	A-60	—	—
Rad. 33	—	—	GB-311
M-34	B-40	WR-33	—
R-37	K-60	—	—
R-37-P	K-60-P	WR-28	—
R-38	K-65	—	—
R-38-P	K-65-P	—	—
RE-40	K-54	—	—
RE-40-P	K-54-P	WR-29	—
R-43	S-42-B	—	—
Rad. 44	—	—	GB-500
Rad. 46	—	—	GB-550
Rad. 48	T-41	WR-4	GB-678
R-50	H-32	—	—
Rad. 51	—	—	GB-320
R-55	—	—	GB-100
RAE-59	H-72	—	—
Rad. 60	—	—	GB-330
Rad. 62	—	—	GB-340
Rad. 66	—	—	GB-600
R-70 & R-70-N	J-72	WR-21	—
R-71	J-82	WR-19	—
R-72	J-86	—	—
R-73 (47)	J-83	WR-22	—
R-73 (2A5)	J-83-A	—	—
R-74	J-100	WR-20	—
R-75 (47)	J-87	—	—
R-75 (2A5)	J-87-A	—	—
R-76	J-103	—	—
R-77	J-107	—	—
R-78	J-125	—	—
R-78 (2)	J-125-A	—	—
RE-80	—	WR-23	—
Rad. 80	H-31	WR-5	GB-700
RE-80-SW	—	WR-25	—
Rad. 82 and 82-R	H-51 and 51-R	WR-6 and 6-R	GB-770
Rad. 86 and 86-R	H-71 and 71-R	WR-7 and 7-R	GB-900
R-90	K-106	—	—
R-90-P	K-106-P	—	—
91-B	C-30	—	—
R-93	—	WR-93	—
M-101	D-50	—	—
100	K-43	WR-32	—
101	M-41	—	—
102	M-40	—	—
103	M-42	—	—
M-104	D-51	—	—
M-105	C-41	WR-41	—
M-107	C-60	—	—
M-108	D-52	—	—
M-109	D-72	—	—
110	K-52	—	—
111	K-53	WR-35	—
112	L-52	WR-34	—
112-A	L-52-A	—	—
114	L-53	—	—
115	K-53-M	—	—
M-116	B-52	WR-42	—
117	M-50	—	—
118	M-51	WR-48	—
118 (Mod.)	M-51-A	WR-48-A	—
119	M-52	—	—
120	K-63	WR-36	—
121	K-64	WR-37	—
M-123	C-61	—	—
124	M-63	—	—
125	M-62	WR-53	—
126-B	C-62	—	—
127	K-64-D	—	—
128	M-61	WR-46	—
128-E	—	WR-50	—
128 (Mod.)	M-61 (Mod.)	WR-46-A	—
135-B	C-70	WR-47	—
140 and 140-E	K-80	WR-30	—
141 and 141-E	K-80-X	WR-31	—
142-B	B-81	—	—
143	M-81	WR-45	—
143 (Mod.)	M-81 (Mod.)	WR-45-A	—
210	K-55	—	—
211	M-56	—	—
214	M-55	—	—
220	K-66	—	—
221	M-65	—	—
222	K-66-M	—	—
223	C-67	—	—
224	M-67	—	—
225	M-655	—	—
226	M-66	—	—
235-B	C-75	—	—
240	K-85	—	—
241-B	B-86	—	—
242	M-86	—	—
243	M-85	—	—
260	K-107	—	—
261	K-105	—	—
262	M-106	—	—
263	M-107	—	—
280	K-126	—	—
281	M-125	—	—
300	K-48	—	—
301	M-49	—	—
310	K-58	—	—
321	M-68	—	—
322	M-69	WR-49	—
330	K-78	—	—
331	K-79	—	—
340	K-88	WR-38	—
340-E	K-88-X	WR-39	—
341	M-89	—	—
380	M-128	—	—
380 H. R.	M-128-R	—	—
381	M-129	—	—

Brand Models Without RCA Victor Equivalents

WR-8	Westinghouse WR-6 Chassis with Clock in Columnaire Cabinet.
WR-8-R	Westinghouse WR-6-R Chassis modified for Vertical operation in Columnaire Cabinet.
K-82	G. E. K-62 in Clock Cabinet.
J-88	G. E. J-82 with Manual Motor Board.
H-91	G. E. H-51 (Modified) in Clock Cabinet.
H-91-R	G. E. H-51-R (Modified) in Clock Cabinet.
J-109	G. E. J-100 Chassis and Automatic Motor Board.
JZ-826	G. E. JZ-822 in Console Cabinet.
JZ-828	G. E. J-88 with Short-Wave Adaptor.

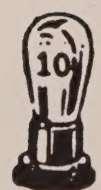
NOTE: RCA Victor Models Without Brand Equivalents are not Listed

February 1988

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13 NWVRS AUCTION & MEETING 11 AM
14	15	16	17	18	19	20 HAM SWAP 9 AM RICKREALL
21 SEATTLE 1 PM PSARA MEETING SALEM 9:30 HALEY flea market	22	23	24	25	26	27 8 AM C.H.R.S. SWAPMEET FOOTHILLS COLLEGE LOS ALTOS CALIFORNIA
28	29					

1988

MARCH	CONTEST
APRIL	TALK
MAY	SWAP MEET
JULY & AUGUST	SUMMER VACATION
SEPTEMBER	AUCTION
OCTOBER	AMATEUR DISPLAY
NOVEMBER	SWAP MEET
DECEMBER	ELECTION/PARTY



EDITORIAL

WELL, HERE IT IS FEBRUARY ALREADY! AS YOU HAVE READ ON PAGE THREE, THIS IS THE ONLY OFFICIAL PUBLICATION OF THE NORTHWEST VINTAGE RADIO SOCIETY. YOUR EDITOR ALWAYS ENDEAVORS TO PROVIDE YOU WITH AN ACCURATE AND FACTUAL PUBLICATION. IF YOU FIND ANY ERRORS OR MIS-INFORMATION PLEASE LET ME KNOW A.S.A.P. AND WE WILL CORRECT THEM. WHEN THE NEXT ROSTER COMES OUT PLEASE CHECK IT FOR ACCURACY, I'VE FOUND SEVERAL ERRORS ON THE PREVIOUS ROSTER. WITH EVERY MEMBER'S HELP, I HOPE WE CAN GET EVERY NAME, NUMBER AND ADDRESS CORRECT.

THE CIRCULATION OF THIS PUBLICATION ALSO NEEDS TO INCREASE. I'VE BEEN DOING MY BEST TO RESTORE THE FORMAT BACK SIMILAR TO THE DAYS OF GREATER DISTRIBUTION, WE HAVE SIGNED UP SEVERAL NEW MEMBERS RECENTLY. IN KEEPING WITH CONTINUED IMPROVEMENT: THE ACCESSION DEPT. WILL BE RESTORED BACK TO OLE! (AS TOM JAMES ORIGINALLY TITLED IT).

I WOULD LIKE TO THANK EVERYONE WHO PROVIDED ADS AND INFORMATION TO THIS PUBLICATION. ONE OF OUR MEMBERS IS AN UNEMPLOYED ELECTRONIC'S DESIGN ENGINEER WITH 30 YEARS EXPERIENCE. IF YOU KNOW OF ANY POSSIBLE EMPLOYMENT, PLEASE LET ME KNOW AND I WILL PASS THE WORD ALONG TO HIM. *EJL*

KVIX
AM 1290

SWAP SHOP

CONSOLIDATED N.W.V.R.S./ P.S.A.R.A. ADS

WANTED

EARLY HEADPHONES ESP. MURDOCK 55^{s} AND BALDWIN 'PHONES WITH ALUMINUM OR FIBRE DIAPHRAGMS. DAN HOWARD 503-761-7799. 2940 SE 118th PORTLAND OR. 97266 HAVE HEADPHONES TO TRADE, ALSO LOOKING FOR COIN OPERATED HOTEL RADIOS AND PARTS. NEED SPEAKER FOR DAHLBERG COIN OPERATED RADIO.

SONY OWNERS MANUALS FOR TC-666D AND TC-580 REEL TO REEL TAPE DECKS AND REMOTE UNIT FOR TC-666D. PRE-1950 TV SETS, BLUE 01A, CROSLEY 59 CHASSIS, AK 84 CHASSIS, GRILLE CLOTH FOR PHILCO 60, EMERSON 707, 729, 737 PLASTIC RADIOS, MIRRORRADIOS, CLOCK RADIOS, PHILCO MANTEL CLOCK RADIO,CATALIN RADIO, REVEL MODEL 10,000 CRYSTAL SET, ANTENNA COIL/TAP SWITCH FOR AK 10C BREADBOARD. KEN KORHONEN 206-932-9363. 4022 41st AVE SW SEATTLE, WASHINGTON 98116.

RADIOLA IIIA AMP. INPUT TRANSFORMER (5-TERMINAL, CAN BE OPEN). ERIK LOFTQUIST 206-546-2675. 1820 NW 195th ST #9 SEATTLE, WASHINGTON 98177

HORN FOR WESTERN ELECTRIC 555 DRIVER. DAVE DINTENFASS 206-784-4803 AFTER 6 PM. 7901 8th AVE NW SEATTLE, WASHINGTON 98117

WESTERN ELECTRIC 7 AMPLIFIER, 616GC, KT66 TUBES STEVE VON TALGE, THE OLD TECHNOLOGY SHOP. 333 NW 74th STREET SEATTLE, WASHINGTON 98117. 206-783-2543.

GRUNOW 801A CONSOLE RADIO, COMPLETE OR CABINET ONLY. DARRELL FORSBERG 206-363-0754. 12209 1st AVE NW SEATTLE WASHINGTON 98177

VARIABLE CONDENSER FOR BROADCAST-BAND USE WITH STRAIGHT LINE FREQUENCY CHARACTERISTICS. LEE RAY 206-762-6520 P.O. BOX 68245 SEATTLE, WASHINGTON 98168.

HRO-60 COILS,MAX KAPLAN 206-851-4187. 14902 84th AVE,CT NW GIG HARBOR, WASHINGTON, 98335.

GREBE RORK AMPLIFIER, EDWIN BUHITE. 503-288-8714 4041 NE WISTARIA DR PORTLAND, OREGON, 97212.

FOR SALE

FIVE 1950 TELEVISION CONSOLES, TWO TABLE MODELS,
FELT PADS FOR RADIO FEET. BROWN NICKEL SIZE, 1/8"
THICK, STICK-ON BACK, 20 for $1.00, BATTERY SET
KNOBS ONLY FOR THOSE MISSING FROM YOUR SET. BRING
SAMPLE SET TO FEB. MEETING. SMALL KNOBS 50¢ TO $3.00
FOR LARGE DIAL KNOBS. JERRY TALBOTT 503-649-6717.
1440 SW 239th AVE. HILLSBORO, OREGON, 97123.

PHILCO 20B CATHEDRAL CABINET. ROBERT TEAGUE 503-653-0077.
7522 SE ROOTS RD. MILWAUKIE, OREGON, 97222.

AMI E-120 JUKEBOX, NEEDS RESTORING, $300. FRANK BANKS
206-824-8956. 1851 S. 244th PLACE KENT, WASH. 98032

HALLICRAFTERS S-17 AND MATCHING SPEAKER, EXCELLENT; MISC.
PARTS. DARRELL FORSBERG 206-363-0754.
12209 1st AVE. NW SEATTLE, WASHINGTON, 98177

HALLICRAFTERS S-20R, $25. SPARTON VERY SMALL WOOD CABINET,
$15. BUD PLUG-IN COILS, 4-PIN, SET OF 4, $10.
JIM BARROWS 206-337-4880. 15121 41st AVE. SE,
BOTHELL, WASHINGTON 98012.

RCA VICTOR, 1929 RADIO/PHONO COMBINATION, RE-45.
EDWIN BUHITE 503-288-8714, 4041 NE WISTARIA DR.
PORTLAND, OREGON 97212.

****

Olé!

ROBERT TEAGUE
BOX OF 75 TUBES; 01A, WD11 AND 199.

LARRY CALLAHAN
SIGNAL CORPS R-45/ARR7 MADE BY BELMONT, 6 BANDS

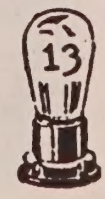
SONNY CLUTTER
1931 CROSLEY "PLAY BOY" 8 TUBE CATHEDRAL #124

RAY NELSON
1936 ZENITH ZEPHYR CHAIRSIDE 6S-147

JIM MASON
1950 12" MOTOROLA TELEVISION
"CARTRAVISION" EARLY 70's CARTRIDGE VIDEO SYSTEM.

DAN HOWARD
1940 MIRRORTONE DELUXE WHITE PLASTIC RADIO
1909 MECOGRAPH RIGHT ANGLE KEY (CAST IRON & BRASS)
IN ORIGINAL WOOD & LEATHER CASE.

JERRY TALBOTT
1920 SPARK COIL, BRAND X IN OAK CASE.
MISC. RADIO MAGAZINES 1920 - 1930
1939 EMERSON BT245 YELLOW CATALIN TOMBSTONE.



1920-1925-1930-1935
1940-1945-1950-1955-1960-1965
1970-1975-1980-1985

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Zenith
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Murdock
Michigan
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Phoenix
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Malone Lemon
Audiola
Gates
Globe
Harmony
Odell Ferry
Peerless
Ducks Deluxe
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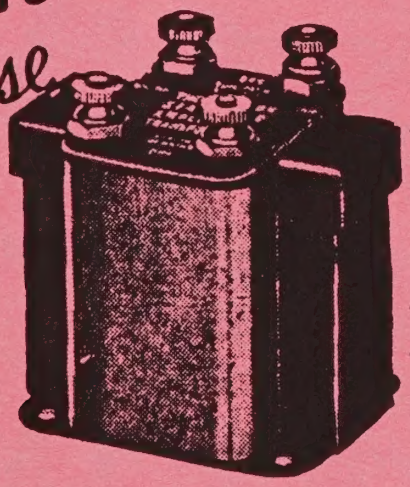
More set makers use



Exclusive!

New York City, Sept. 25, 1924.

Thordarson Electric Mfg. Co.,
500 W. Huron St., Chicago.

The transformers which you supplied to equip the Radio on the schooner Bowdoin stood the extreme temperature of the Arctic without the slightest mishap. These transformers are in exactly the same condition today as they were the day they were installed, May, 1923.

Sincerely yours,

Donald B. Mac Millan

(signed) W N P

Follow their lead

—amplify with Thordarsons!

Can you imagine nationally famous builders of sets costing up to hundreds of dollars each, jeopardizing the tone quality of their instruments with anything short of the best amplifications? Of course not! Then remember, in buying transformers, that Thordarsons are standard on thirty-four makes of high-grade sets. That leading set manufacturers use MORE Thordarsons than all competitive transformers combined.

Replace your present audio frequency transformers with a pair of Thordarsons. You'll be astonished, delighted. Distorted speech will disappear. You will find they amplify with EVEN volume over the ENTIRE musical range. Note below some of the reasons why.

Buy a Thordarson-equipped set—or follow the lead of the leading makers and build with Thordarsons. Increased production this season enables any store to supply you. If your dealer has not yet received his stock, you may order from us by mentioning his name. Interesting bulletins sent free.

THEY ARE UNCONDITIONALLY GUARANTEED

THORDARSON

Super AMPLIFYING TRANSFORMERS

Standard on the majority of quality sets

Thordarson "Super" Audio Frequency Transformers are now to be had in three ratios: 2-1, $5; 3½-1, $4; 6-1, $4.50 Thordarson Power Amplifying Transformers are $13 the pair. Write for latest bulletins.

THORDARSON SQUARE COIL LEAK-PROOF CONSTRUCTION

The Thordarson-made layer-wound SQUARE coil fits snugly around the square core. No air space between coil and core (exclusive!)—no lost energy, no lost volume (especially on low notes), no leaks from primary to cause howls in set. Oversize core provides 50% larger magnetic circuit—minimizes core losses, prevents over-saturation. No rivets or screws through core to cause short circuits or eddy current losses between laminations (exclusive!) Do you wonder Thordarson produces more transformers for more makers of quality sets than all competitors combined?

NEW!

We announce the Thordarson INTERSTAGE Power Amplifying Transformer. Provides TWO STAGES of POWER amplification when inserted in circuit between Input and Output Power Amplifying Transformers. Four tubes are required, but the quality of the reception more than repays you. Only Thordarson builds a transformer of this type. Price $8. Write for free hook-up.

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